

PROJECT TITLE : Cigarette and Smoke Analysis
Period Covered : December 21, 1979 - January 30, 1980
Report Written by : F. Senehi
Report Approved by : J.B. Boder

Cigarette Information Report

In order to improve the presentation of the cigarette information report, the following modifications will be made in the next edition (No 12-1979/1-1980) :

1. In the section "Highlights", the description of the brand modifications during the given period will be more detailed.
2. The same comments, but listed according to the alphabetical order of the brand names, will be eliminated.
3. All the product reports will be grouped in the green pages, just after the blue section.
4. The persons who only receive the pocket C.I.R. will, from now on, receive the whole blue and green section, i.e. :

- Highlights
- Characteristics of the brands commented on
- Brands ranked according to DPM or tar delivery
- All the product reports (green pages)

Smoking Machine : FILTRONA 300

Since December 15, 1979, our oldest smoking machine has been completely out of work. For this reason, we now have a one week delay in the smoke analyses. A new drive unit, model 300, was ordered.

ANALYTICAL SMOKING

- Competitive Brands

The tar and smoke nicotine values have been determined on 12 brands from the Cameroons. The results have been distributed.

- Data from the Official Swiss Laboratory of Dr. Romann
(See table in appendix)

A table has been issued, which shows the tar, smoke nicotine, carbon monoxide and nitric oxide values of all PM brands analysed by Dr. Romann's laboratory, compared with the results obtained by QC PME (ref. 1).

Dr. Romann finds, in the average,

11.3 % lower tar results
7.5 % lower SN results
3.1 % lower CO results
11.7 % lower NO results

The tar deviation is probably due to the following facts :

1. that Dr. Romann's laboratory is not well conditioned
2. that the smoking machine FILTRONA 302 (8 ports), used by Dr. Romann, gives lower tar results than the smoking machine FILTRONA 300. This fact had already been observed in the results of the collective test organised by the Swiss Association of Cigarette Manufacturers on two selected cigarette brands :

<u>Manufacturer</u>	<u>Smoking Machine</u>	<u>Condensate</u>	
		<u>Cig. A</u>	<u>Cig. B</u>
B.A.T.	FILTRONA 302	11.5	15.5
Dr. Romann	FILTRONA 302	11.3	15.5
Burrus	FILTRONA 300	12.5	16.9
F.T.R.	FILTRONA 300	12.4	17.0

- TPM Audit

During the Quality Control PME Meeting of March 5th-7th, 1979, a procedure for the TPM programme was proposed, discussed and agreed between the three smoke laboratories located in Munich, Eindhoven and Neuchâtel.

After several months of experience and practice, a TPM audit took place in Neuchâtel, Munich and Eindhoven with the participation of Miss Regel, Mr. van Duuren and the undersigned as well as their closest collaborators.

Conclusions :

- 1) The procedure for the TPM programme has been re-defined (modifications on "sampling", "number of analyses", "alarm limit", etc.).
- 2) There are still some questions regarding the regression curve to solve.
- 3) Some participants have doubts about the time saved with this inspection system.

"Submarine" Project

The first monthly computer-edited "Submarine" situation report was distributed on January 16, 1980 (ref. 3).

This report gives the risk, in percent, that the analytical numbers of the sample of a given brand exceed the tolerance limit above the printed number.

Risk tables are specific to each country, by taking into account the sampling procedure, the sample size, and the rules governing the tolerance limits.

Product Reports

The following product reports have been worked out :

<u>Brand</u>		<u>Manufacturer</u>	<u>Country of sale</u>
Craven "A" Menthol Légère	84/F	Carreras-Rothmans	France
Peter Stuyvesant Menthol Light	80/F	Turmac	France
Dunhill Superior Mild Int.	94/F	Brinkmann	West Germany
Winston King Size	84/F	Reynolds	West Germany

QC FINISHED PRODUCTS

F. Senehi
F. Senehi

References:

1. Letter dd. 01-18-1980 from F. Senehi to Mr. J.B. Boder
2. Letter dd. 01-28-1980 from F. Senehi
3. Letter dd. 01-18-1980 from F. Senehi

Appendix : Table

COMPARATIVE RESULTS BETWEEN THE OFFICIAL SWISS LABORATORY OF DR. ROMANN AND QC PYE

BRAIDS	TAR			SH			CO		NO		
	ROMANN	QC PYE	PRINTED VALUES	ROMANN	QC PYE	PRINTED VALUES	ROMANN	QC PYE	ROMANN	QC PYE	
ARLETTE	13.2	14.8	16	0.71	0.87	1.0	16.5	17.4	0.32	0.34	
EASTOS	13.8	16.4	17	0.73	0.94	1.1	15.8	15.8	0.31	0.43	
BRUNETTE CARREE / PLATE	18.3/18.0	19.5	23	1.14/1.06	1.18	1.3	14.1/14.1	14.7	0.26/0.25	0.31	
BRUNETTE DOUBLE	14.0	15.1	15	0.96	1.05	1.0	16.8	16.4	0.28	0.30	
BRUNETTE EXTRA MOU / BOX	5.5/ 5.6	6.6	7	0.40/0.49	0.49	0.6	10.0/10.0	10.2	0.19/0.18	0.20	
BRUNETTE FILTRE	14.0	15.7	16	0.92	1.02	1.1	16.0	16.5	0.29	0.30	
CHAMPION	13.8	15.7	15	1.29	1.35	1.4	14.1	13.8	0.13	0.14	
DIANA KING SIZE	13.4	14.7	19	0.85	0.92	1.4	17.3	16.4	0.17	0.23	
FLINT BOX	6.7	7.0	7	0.49	0.55	0.6	9.5	10.4	0.14	0.15	
FLINT KING SIZE	6.5	7.4	7	0.49	0.52	0.6	8.9	10.6	0.14	0.16	
FLINT ULTRA LEGERE	0.7	1.7	2	0.12	0.19	0.2	3.0	3.5	0.09	0.09	
MURATTI AMBASSADOR BOX	12.7	13.7	14	0.92	0.91	0.9	14.9	15.6	0.20	0.23	
MURATTI 2000	5.4	6.6	7	0.49	0.53	0.6	7.9	9.1	0.11	0.14	
MURATTI 2000 EXTRA LONGS BOX	6.3	7.8	9	0.57	0.61	0.8	8.6	10.1	0.12	0.15	
MURATTI AMBASSADOR EXTRA MILD K.S.	4.1	5.5	5	0.37	0.44	0.4	7.8	10.1	0.13	0.13	
MURATTI AMBASSADOR KING SIZE	12.7	14.0	14	0.90	0.92	0.9	16.1	16.4	0.21	0.24	
MERCEDES KING SIZE	15.7	17.3	16	0.96	1.01	1.1	18.7	18.6	0.19	0.22	
MILLA	16.6	17.8	17	0.88	0.93	0.9	16.3	14.5	0.08	0.12	
MARLBORO BOX	14.6	16.7	16	1.13	1.16	1.2	14.9	16.6	0.24	0.26	
MARLBORO 100'S RED BOX	15.7	17.8	17	1.26	1.34	1.2	16.5	16.8	0.28	0.26	
MARLBORO KING SIZE	13.1	16.0	16	1.01	1.17	1.2	14.2	16.5	0.21	0.26	
MARLBORO GOLD	7.8	9.2	9	0.67	0.74	0.8	10.5	11.7	0.18	0.22	
MULTIFILTER 100'S	13.3	15.5	16	1.00	1.07	1.1	17.1	16.7	0.23	0.25	
MULTIFILTER KING SIZE	12.7	13.5	14	0.94	0.91	0.9	16.7	15.7	0.23	0.23	
MS KING SIZE	14.7	16.0	18	1.05	1.15	1.2	16.7	18.0	0.34	0.36	
NORTH POLE	13.6	15.3	14	0.82	0.93	0.9	13.7	14.3	0.19	0.25	
PHILIP MORRIS INTERNATIONAL	15.1	17.5	17	1.12	1.13	1.1	19.0	18.0	0.22	0.26	
PHILIP MORRIS KING SIZE NF	21.5	23.1	23	1.52	1.61	1.5	13.7	13.2	0.19	0.22	
GENERAL AVERAGE	11.98	13.50	13.79	0.847	0.916	0.964	13.76	14.20	0.203	0.230	
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